

WHAT IS CLAIMED IS:

1. An electronic apparatus comprising:  
a heat-generating component;  
a main unit having a heat-receiving portion  
5 thermally connected to the heat-generating component;  
a display unit supported by the main unit;  
a heat-radiating portion provided in the display  
unit and radiating the heat generated by the heat-  
generating component; and  
10 a circulating path circulating liquid coolant  
between the heat-receiving portion and the heat-  
radiating portion,  
wherein the heat-radiating portion includes  
a first radiator and a second radiator which located,  
15 respectively, at the upstream and downstream of the  
liquid coolant, and the second radiator is exposed  
outside the display unit.
2. The electronic apparatus according to claim 1,  
wherein the first and second radiators have each  
20 a coolant passage in which the liquid coolant flows.
3. The electronic apparatus according to claim 1,  
wherein the display unit incorporates a display panel,  
and the first and second radiators oppose one another  
at the back of the display panel.
- 25 4. The electronic apparatus according to claim 3,  
wherein the display unit has a front wall at which the  
display panel is exposed and a back wall which faces

away from the front wall, and the second radiator is exposed at the back wall.

5           5. The electronic apparatus according to claim 2, wherein the second radiator has a first heat-radiating plate and a second heat-radiating plate which are laid one upon the other, and the coolant passage is provided between the heat-radiating plates.

10           6. The electronic apparatus according to claim 5, wherein the first heat-radiating plate is made of transparent material and exposed outside the display unit.

15           7. The electronic apparatus according to claim 6, wherein the first heat-radiating plate is made of synthetic resin that absorbs 0.4% of water at most, and the second heat-radiating plate is made of metal.

            8. The electronic apparatus according to claim 6, wherein the liquid coolant is colored.

            9. The electronic apparatus according to claim 1, further comprising:

20           a pump installed in the circulating path to deliver the liquid coolant and which starts to be driven when the temperature of the heat-generating component reaches a predetermined value.

25           10. The electronic apparatus according to claim 1, further comprising:

            a cooling-air passage provided between the first and second radiators and in which cooling air flows.

11. The electronic apparatus according to claim 10, wherein the second radiator has a first heat-radiating plate and a second heat-radiating plate, which are laid on upon the other, the second heat-radiating plate has a bulging part which wells from the first heat-radiating plate and which opens to the first heat-radiating plate, the first heat-radiator plate closes the opening of the bulging part, forming a coolant passage in which the liquid coolant flows, and the bulging part of the second heat-radiating plate is exposed to the cooling-air passage.

12. The electronic apparatus according to claim 10, further comprising an electric fan which applies cooling air into the cooling-air passage and which is provided in the display unit.

13. An electronic apparatus comprising:  
a heat-generating component;  
a main unit having a heat-receiving portion thermally connected to the heat-generating component;  
a display unit supported by the main unit;  
a heat-radiating portion provided in the display unit and radiating the heat generated by the heat-generating component;  
a circulating path circulating liquid coolant between the heat-receiving portion and the heat-radiating portion; and  
a fan provided in the display unit and which

applies cooling air to the heat-radiating portion,

wherein the heat-radiating portion includes  
a first radiator and a second radiator which located,  
respectively, at the upstream and downstream of the  
liquid coolant, the first and second radiators have  
a coolant passage each, in which the liquid coolant  
flows, and oppose each other in the direction of  
thickness of the display unit and forming a cooling-air  
passage, and the second radiator is exposed outside the  
display unit.

14. The electronic apparatus according to  
claim 13, wherein the first and second radiators have  
each a first heat-radiating plate and a second heat-  
radiating plate laid upon the first heat-radiating  
plate, the second heat-radiating plate has a bulging  
part which swells from the first heat-radiating plate  
and which opens to the first heat-radiating plate, the  
first heat-radiating plate closes the opening of the  
bulging part, forming the coolant passage, and the  
bulging part of the second heat-radiating plate is  
exposed to the cooling-air passage.

15. The electronic apparatus according to  
claim 14, wherein the bulging part of the first  
radiator and the bulging part of the second radiator  
are displaced from each other, not facing each other.

16. The electronic apparatus according to  
claim 13, wherein the second radiator is smaller than

the first radiator.

17. An electronic apparatus comprising:

a heat-generating component;

5 a main unit having a heat-receiving portion  
thermally connected to the heat-generating component;

a display unit supported by the main unit;

a heat-radiating portion provided in the display  
unit and radiating the heat generated by the heat-  
generating component;

10 a circulating path circulating liquid coolant  
between the heat-receiving portion and the heat-  
radiating portion; and

a reservoir provided in the display unit, which  
contains liquid coolant to flow in the circulating  
15 passage, which is located at the downstream of the  
liquid coolant with respect to the heat-radiating  
portion, and which is exposed outside the display unit.

18. The electronic apparatus according to  
claim 17, further comprising a cooling-air passage  
20 provided between the heat-radiating portion and the  
reservoir and an electric fan which applies cooling air  
into the cooling-air passage.

19. The electronic apparatus according to  
claim 17, wherein the reservoir is made of transparent  
25 material and the liquid coolant is colored.

20. The electronic apparatus according to  
claim 19, wherein the reservoir has a scale which is

exposed outside the display unit and against which the level of the liquid coolant in the reservoir is checked to determine the amount of the liquid coolant.